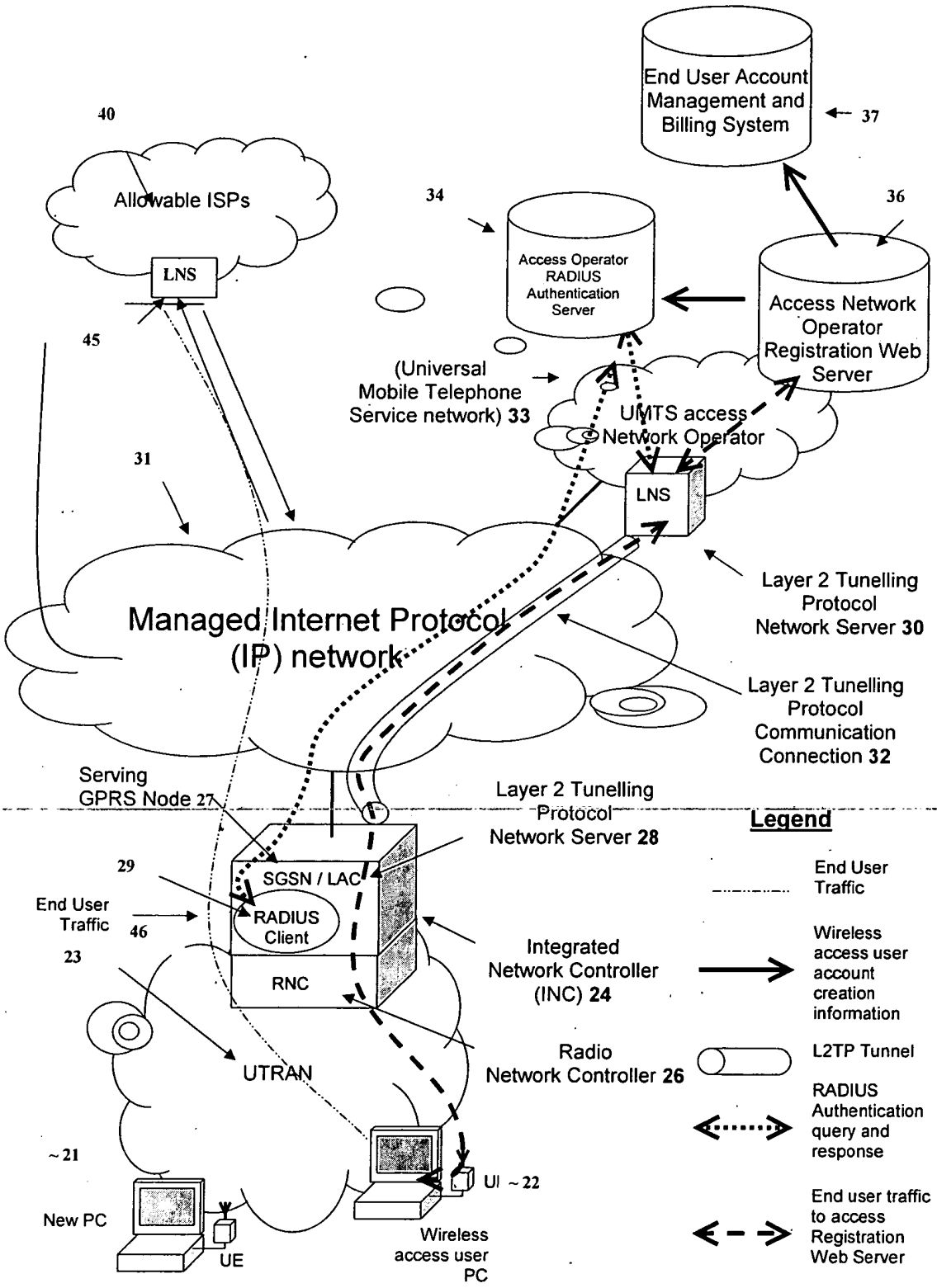
End User Account Management and Billing System
37
40
Allowable ISPs
34
36
LNS
Access Operator RADIUS Authentication Server
Access Network Operator Registration Web Server
45
(Universal Mobile Telephone Service network) 33
UMTS access Network Operator
31
LNS
Layer 2 Tunelling Protocol Network Server 30
Managed Internet Protocol (IP) network
Layer 2 Tunelling Protocol Communication Connection 32
Serving GPRS Node 27
Layer 2 Tunelling Protocol Network Server 28
Legend
29
SGSN / LAC
End User Traffic
RADIUS Client
46
23
RNC
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Wireless access user account creation information
Radio Network Controller 26
L2TP Tunnel
UTRAN
RADIUS Authentication query and response
~21
UI ~22
End user traffic to access Registration Web Server
New PC
UE
Wireless access user PC

Figure - 1

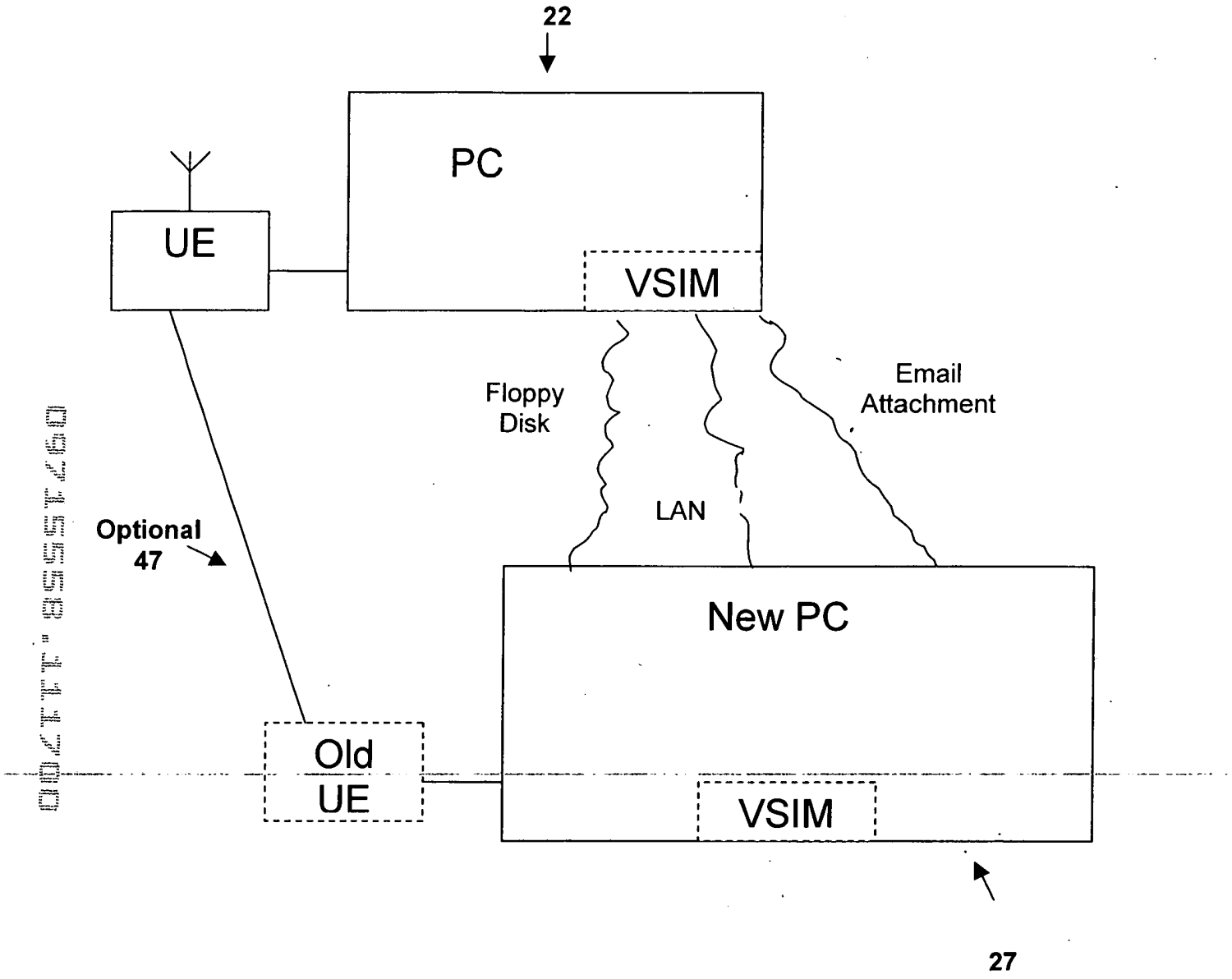
22
PC
UE
VSIM
Floppy Disk
Email Attachment
LAN
Optional 47
New PC
Old UE
VSIM
27

Figure - 2

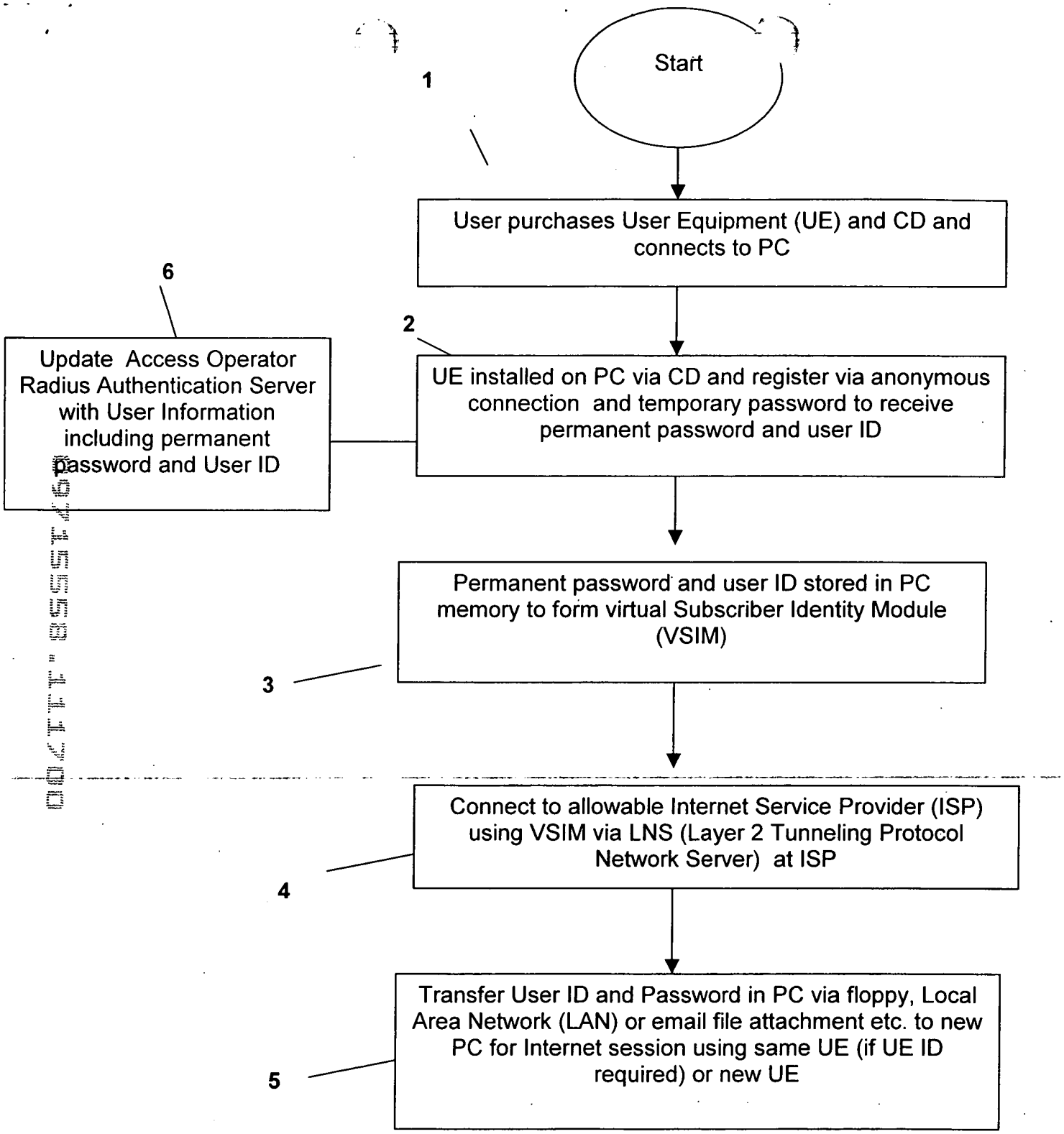
Start
1
User purchases User Equipment (UE) and CD and connects to PC
6
Update Access Operator Radius Authentication Server with User Information including permanent password and User ID
2
UE installed on PC via CD and register via anonymous connection and temporary password to receive permanent password and user ID
Permanent password and user ID stored in PC memory to form virtual Subscriber Identity Module (VSIM)
3
Connect to allowable Internet Service Provider (ISP) using VSIM via LNS (Layer 2 Tunneling Protocol Network Server) at ISP
4
Transfer User ID and Password in PC via floppy, Local Area Network (LAN) or email file attachment etc. to new PC for Internet session using same UE (if UE ID required) or new UE
5

Figure - 3